PTO/SB/05 (11-00)

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-11-02

## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.		020798-002100US						
First In	ventor		Vandenameele-Lepla, Patrick					
Title	METHOD AND APPARATUS FOR FREQUENCY-DOMAIN TRACKING OF RESIDUAL FREQUENCY AND CHANNEL ESTIMATION OFFSETS							

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b)) Express Mail Label No. EL 827037195 US Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO Box Patent Application See MPEP chapter 600 concerning design patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. 🛛 Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) [Total Pages 3. 🗵 Specification a. Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: Descriptive title of the Invention i. CD-ROM or CD-R (2 copies); or - Cross References to Related Applications ii. 

paper number of pages - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** Background of the Invention - Brief Summary of the Invention 9. 🔲 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 🔲 37 C.F.R.§3.73(b)Statement Power of - Detailed Description (when there is an assignee) Attorney - Claim(s) - Abstract of the Disclosure 11. English Translation Document (if applicable) 4. 区 Drawing(s) (35 U.S.C.113) [Total Sheets 6 12. 🔲 Information Disclosure Copies of IDS 1 Citations [Total Pages | 1 Statement (IDS)/PTO-1449 5. Oath or Declaration 13. Preliminary Amendment a. 
Newly executed (original) 14. ⊠ Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🔲 Certified Copy of Priority Document(s) i. ☐ DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) 16.  $\square$ Nonpublication Request under 35 U.S.C. named in the prior application, see 37 CFR 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent 6. 

■ Application Data Sheet. See 37 CFR 1.76 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☐ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No. \_ Prior application information: Examiner Group Art Unit-For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS or  $\square$ Correspondence address below □ Customer Number or Bar Code Label 20350 (Insert Customer No. or Attach bar code label here) Name Address City State Zip Code Country Telephone Name (Print/Type) Babak S. Sani Registration No. (Attorney/Agent) 37,495 Signature Date 01/08/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO. Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.SF 1306391 v1

TOTAL AMOUNT OF PAYMENT

## **FEE TRANSMITTAL** for FY 2001

Patent fees are subject to annual revision.

544

## Complete if Known Not Assigned Yet Application Number January 8, 2002 Filing Date First Named Inventor Vandenameele-Lepla, Patrick **Examiner Name** Not Yet Assigned Group Art Unit NYA Attorney Docket No. 020798-002100US

METHOD OF PAYMENT						FEE CALCULATION (continued)						
The Commissioner is hereby authorized to charge						3. ADDITIONAL FEES						
1.	1. indicated fees and credit any over payments to					Large	Entity	Small	Entity			
Dong	neit						Fee	Fee	Fee	Fee	For Description	Fee
	Deposit Account 20-1430				Code	(\$)	Code	(\$)	Fee Description	Paid		
Number				105	130	205	65	Surcharge - late filing fee or oath				
Deposit					127	50	227	25	Surcharge - late provisional filing fee or cover sheet.			
Account Townsend and Townsend and Crew LLP				139	130	139	130	Non-English specification				
Name					147	2,520	147	2,520	For filing a request for reexamination			
☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17						112	920*	112	920*	Requesting publication of SIR prior to Examiner action		
Applicant claims small entity status.  See 37 CFR 1.27							113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
2. Payment Enclosed:							115	110	215	55	Extension for reply within first month	
☐ Check ☐ Credit card ☐ Money ☐ Other						116	400	216	200	Extension for reply within second month		
Order							117	920	217	460	Extension for reply within third month	
FEE CALCULATION  1. BASIC FILING FEE						118	1,440	218	720	Extension for reply within fourth month		
Large	Entity 5	Small E	Entity				128	1,960	228	980	Extension for reply within fifth month	
Fee			Fee	Fee Description	1		119	320	219	160	Notice of Appeal	
Code		Code	(\$)		Fe	e Paid	120	320	220	160	Filing a brief in support of an appeal	
101			370	Utility filing fee	37	<u>'0</u>	121	280	221	140	Request for oral hearing	
106 107				Design filing fee Plant filing fee	<u> </u>		138	1,510	138	1,510	Petition to institute a public use proceeding	
108	740 2	208 :	370	Reissue filing fe	e		140	110	240	55	Petition to revive – unavoidable	
114	160 2	214 8	80	Provisional filing	fee		141	1,280	241	640	Petition to revive - unintentional	
					<u> </u>		142	1,280	242	640	Utility issue fee (or reissue)	
SUBTOTAL (1) (\$)370						143	460	243	230	Design issue fee		
2. EXTRA CLAIM FEES						144	620	244	310	Plant issue fee		
				Extra Fe	e from	Fee	122	130	122	130	Petitions to the Commissioner	
Total Claim	ns 30	20**	_			Paid \$90	123	50	123	50	Petitions related to provisional applications	
ndependen Claims	t 5	-3**	= [	2 X \$	342 =	\$84	126	180	126	180	Submission of Information Disclosure Stmt	
Multiple Dependent				x	=		581	40	581	40	Recording each patent assignment per property (times number of properties)	
Large Fee	Entity Fee	Small Fee	Entity Fee	r Fee Descript	ian		146	740	246	370	Filing a submission after final rejection (37 CFR § 1 129(a))	
Code	(\$)	Code	(\$)	•			149	740	249	370	For each additional invention to be	
103	18	203	9	Claims in excess of 20							examined (37 CFR § 1.129(b))	
102	84	202	42	Independent	179	740	279	370 F	Request for Continued Examination (RCE)			
104	280	204	140	Multiple dependent claim, if not paid  ** Reissue independent claims over			169	900	169			
109	84	209	42	original paten				500	Request for expedited examination of a design application			
110 18 210 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$)174					Other fee (specify)							
					The Commissioner is authorized to charge any additional fees to the above noted Deposit Account.							
**or numb	her previou	ehrnaid if	greater:	For Paleeliae ea	o obovo		*Reduc	ed by Bas	sic Filing	Fee Pa	id SUBTOTAL (3) (\$)	

SUBMITTED BY		Complete (if applicable)				
Name (Print/Type)	Babak S. Sani	Registration No (Attorney/Agent)	37,495	Telephone	415-576-0200	
Signature	1 N	Call -		Date	01/08 02	

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